Glenn T. Seaborg Center Seminar

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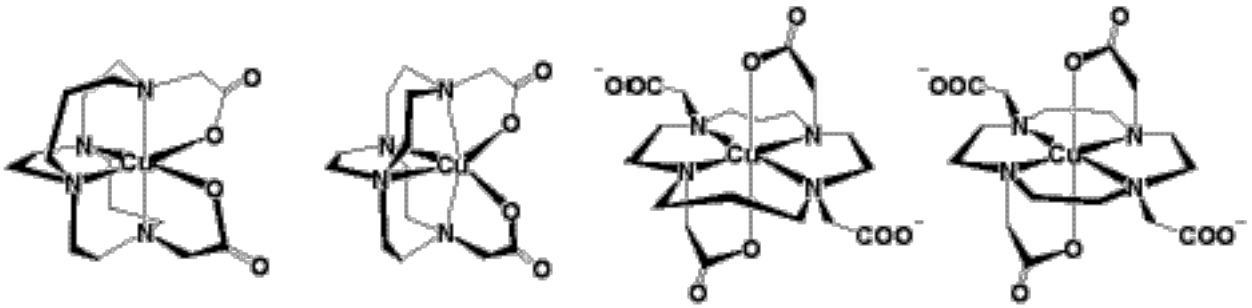
Copper-64 Labeled Biomolecules for Tumor Targeting

Wednesday, January 28, 2004
4 pm
Building 70A-3377

Abstract

The major focus of our research is the development, evaluation and application of radiopharmaceuticals containing metal radionuclides for diagnostic imaging and radiotherapy. We are particularly interested in ^{64}Cu ($T_{1/2}$ = 12.7 hours), in large part because it emits β^+ particles for positron emission tomography (PET) imaging and β^- particles for radiotherapy. One class of agents being studied is ^{64}Cu-labeled bifunctional chelator-receptor ligand conjugates for imaging and therapy of various types of cancer. The research involved in the development of ^{64}Cu-labeled tumor targeting agents is highly inter-disciplinary and involves synthetic chemistry, radiochemistry, biochemistry, cell biology and the imaging sciences.



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